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not denote near relationship." The unhappy results obtained by Knottnerus-Meyer in his attempts to classify ungulates by the characters of the lacrymal bones alone, might have been mentioned in this connection as an example of the dangers to be encountered in the complete reliance on any one part of the structure of an animal as a sure guide to its affinity.

—N. Hollister.

Matschie, Paul. NEUE ERGEBNISSE DER SCHIMPANSENFORSCHUNG. Zeitschr. f. Ethnol., vol. 51, pp. 62-82. 1919.

This paper is based upon the author's recent studies on 322 skulls and 159 skins of the chimpanzee. In the critique of the features that have been claimed in the literature to distinguish the chimpanzee from other apes many interesting statements are found: the length of the arm varies to a great extent in the different species of chimpanzee; there are forms in which the arm is as long as in many orang-utans. The outer ear of the chimpanzee is said to be larger than that of the gorilla. This rule, however, has many exceptions; there are chimpanzees whose ears are only 40 mm. long, and in Kamerun there is a gorilla with ears at least 42 mm. in length even in the young animal. The crista sagittalis on the skull, often held to be typical for *Gorilla*, is missing in a great many females of this ape and is found among the chimpanzees in the Tschege and some species of the Congo and Ogowe regions. The nasal bones, which according to Keith, reach farther down in the gorilla than in the chimpanzee, are at times of greater relative length in the latter than in the former. The author finds that the gorilla is distinguished from the chimpanzee by the fact that the nasalia are more than twice as broad at their lower as at their upper ends, and also by the second last upper molar, which is at least 13 mm. in breadth and 12 mm. in length, while in the chimpanzee it is at most 12 mm. in breadth and 10 mm. in length.

A good deal of space is devoted to the description of many different species and races of chimpanzee, among which the author proposes some new ones, e.g., *Anthropopithecus schneideri* and *A. papio*.

—A. H. Schultz.

Eggeling, H. INWIEWEIT IST DER WURMFORTSATZ AM MENSCHLICHEN BLIND-DARM EIN RUDIMENTÄRES GEBILDE? Anatom. Anz., vol. 53, pp. 401-428. 1920.

The largest part of this paper is devoted to a description of the caecum and, where it is to be found, of the appendix in primates. The latter is present in apes and in *Stenops* and *Chiromys* of the Prosimiæ; it is missing in catarrhine as well as platyrrhine monkeys. The paper contains interesting extensive tables on the length of the different regions of the intestinal tract of primates.

—A. H. Schultz.

BULLER, A. H. REGINALD. The red squirrel of North America as a mycophagist.

Trans. British Mycological Soc., vol. 6, part 4, pp. 355-362, September 22, 1920. (The red squirrel of North America is an habitual mycophagist. In the late autumn it often collects fleshy fungi in large numbers for its winter supply of food; and it stores these fungi sometimes *en masse* in holes in tree trunks, old birds' nests, etc., and sometimes separately on the branches of certain trees.)

- CARHART, ARTHUR H. Forest oddities—the bighorns of Ouray. *Amer. Forestry*, vol. 27, pp. 37-38; 3 figs. January, 1921. (Tameness of the protected mountain sheep at Ouray, Colorado.)
- DICE, LEE RAYMOND. The land vertebrate associations of interior Alaska. Occasional papers Mus. Zool. Univ. Michigan, no. 85, 24 pp., 4 plates, May 25, 1920. (Nineteen associations mentioned, all of which except 3 contain mammals.)
- The mammals of Warren Woods, Berrien County, Michigan. Occasional papers Mus. Zool. Univ. Michigan, no. 86, 20 pp., 2 plates, June 24, 1920.
- DUNN, L. C. Linkage in mice and rats. *Genetics*, vol. 5, pp. 325-343, May, 1920 (September, 1920).
- Independent genes in mice. *Genetics*, vol. 5, pp. 344-361, May, 1920 (September, 1920).
- Types of white spotting in mice. *Amer. Nat.*, vol. 54, pp. 465-495. November-December (December 6), 1920.
- FESTA, E. *II Nyctinomus taeniotis* (Raf.) in Piemonte. *Boll. Mus. Zool. Anat. comp. R. Univ. Torino*, vol. 35, no. 735, pp. 1-3. November 15, 1920.
- GREGORY, WILLIAM K. Facts and theories of evolution, with special reference to the origin of man. *Dental Cosmos*, pp. 1-19 (of reprint). March, 1920. (Lecture delivered before the annual meeting of the Eastern Association of Graduates of the Angle School of Orthodontia, New York City, May 5 and 6, 1919.)
- Studies in comparative myology and osteology; No. V. On the anatomy of the preorbital fossæ of Equidæ and other ungulates. *Bull. Amer. Mus. Nat. Hist.*, vol. 42, pp. 265-284; 1 plate, 26 figs. December 4, 1920.
- GRIFFITH, COLEMAN R. The effect upon the white rat of continual bodily rotation. *Amer. Nat.*, vol. 54, pp. 524-534. November-December (December 6), 1920.
- GUNTHER, HORACE. Pulsation of a cat's heart after death. *Science*, n.s., vol. 53, p. 92. January 28, 1921.
- HAUSMAN, LEON AUGUSTUS. Hairs that make fabrics. The microscopic identification of mammal hairs used in the textile industry. *Scientific Amer.*, vol. 122, no. 8, pp. 184, 200, 202, 204. February 21, 1920.
- A micrological investigation of the hair structure of the Monotremata. *Amer. Journ. Anat.*, vol. 27, pp. 463-495, September, 1920.
- Structural characteristics of the hair of mammals. *Amer. Nat.*, vol. 54, pp. 496-523, 199 figures. November-December (December 6), 1920.
- HINTON, MARTIN A. C. *Paraonyx*, a new genus of clawless otter discovered by Capt. J. E. Philipps, M.C., in Central Africa. *Ann. and Mag. Nat. Hist.*, ser. 9, vol. 7, pp. 194-200. February, 1921. (*Paraonyx philippsi* gen. et spec. nov., from British Ruanda. The *Aonyx capensis congica* of Lönnberg is also included in the new genus.)
- HORNADAY, W. T. Restore the Burchell zebra. *Zool. Soc. Bull.*, vol. 24, no. 1, pp. 18-20. January, 1921.
- HOWELL, ARTHUR H. Description of a new chipmunk from Glacier National Park, Montana. *Proc. Biol. Soc. Washington*, vol. 33, pp. 91-92. December 30, 1920. (*Eutamias ruficaudus*, sp. nov., from Upper St. Mary's Lake.)

- HRDLIČKA, ALEŠ. Shovel-shaped teeth. Amer. Journ. Phys. Anthr., vol. 3, pp. 429-465. December, 1920. (Contains notes on the teeth of mammals.)
- IBSEN, HEMAN L. Tricolor inheritance. IV. The triple allelomorphic series in guinea pigs. Genetics, vol. 4, pp. 597-606, November, 1919 (February, 1920).
- JACKSON, CLARENCE M., AND CHESTER A. STEWART. The effects of inanition in the young upon ultimate size of the body and of the various organs in the albino rat. Journ. Exper. Zool., vol. 30, pp. 97-128, January, 1920.
- JONES, F. WOOD. The external characters of pouch embryos of marsupials. No. I—*Trichosurus vulpecula*, var. *typicus*. Trans. Royal Soc. South Australia, vol. 44, pp. 360-373, plates 14, 15, 1920.
- KING, HELEN DEAN. Studies on inbreeding. IV. A further study of the effects of inbreeding on the growth and variability in the body weight of the albino rat. Journ. Exper. Zool., vol. 29, pp. 71-111, August, 1919. (Based upon the growth and variability in the body weights of 296 males and 310 females belonging in the sixteenth to the twenty-fifth generations of two series of albino rats that were inbred, brother and sister from the same litter. Seemingly, inbreeding has as yet produced no deterioration in the original albino stock as regards the rate and extent of growth in body weight.)
- LOMEN, CARL J. Hearings before the Committee on Ways and Means, House of Representatives, on reindeer meat, January 21, 1921. Tariff Information, 1921, Washington, Government Printing Office, pp. 1-25. 1921. (Statement by Mr. Lomen, and briefs on the reindeer industry in Alaska filed with it.)
- LUCAS, FREDERIC A. The unicorn and his horn. Nat. Hist., vol. 20, pp. 532-535. December, 1920.
- MACDONALD, ROSE M. A question of bibliography. Science, n. s., vol. 53, pp. 74, 75. January 21, 1921. (Reply to query by A. Willey for information as to what "Mr. Lockhart" is quoted in Coues' Fur-bearing Animals.)
- MAY, HENRY G. Observations on the nematode genus *Nematodirus*, with descriptions of new species. Proc. U. S. Nat. Mus., vol. 58, pp. 577-588, pls. 29-35. December, 1920. (This genus of nematodes inhabits the intestines of sheep, cattle, goats, deer, camels, and rodents. One species, *Nematodirus neotoma*, inhabits the small intestine and stomach of woodrats from Colorado, the type specimens having been taken from *Neotoma cinerea rupicola*.)
- MAYER, CHARLES. Trapping an elephant herd in Trengganu. Asia, vol. 20, pp. 1055-1058, December, 1920. (An account of trapping a herd of 60 elephants in a stockade.)
- How Sir Elephant mastered the herd. Asia, vol. 21, pp. 27-32. January, 1921. (Explains in story form methods of taming or "breaking" elephants. Contains many valuable data on habits of elephants.)
- Long chances in the animal dealer's game. Asia, vol. 21, pp. 154-159, 168. February, 1921. (Account of shipping 5 elephants by steamboat. Notes on habits of elephants. Account of trapping a live rhinoceros.)
- MICHL, EDUARD. Beitrag zur Entwicklungsgeschichte vom *Bos taurus* L. Anat. Anz., vol. 53, pp. 193-215. August 20, 1920.
- MIRANDA RIBEIRO, ALIPIO DE. Os veados do Brasil segundo as collecções Rondon e de varios Museus nacionaes e estrangeiros. Revista do Museu Paulista, vol. 11, pp. 209-307; 25 plates, 1 map. 1919. (Largely discussion and quotation of earlier authors. *Odocoelus suaçuapara*, apparently a variant of

- Kerr's *Cervus cuguapara*, is applied to specimens from Manaos. The new name *Mazama simplicicornis* var. *kosertzi* occurs on three plates showing a skull from Rio Grande do Sul. A colored plate shows the type specimen of Natterer's *Nanelaphus namibi* from the original in the Vienna museum.)
- OSBORN, HENRY FAIRFIELD. The evolution, phylogeny and classification of the Proboscidea. Amer. Mus. Novit., no. 1, pp. 1-15, 4 figs. January 31, 1921.
- PETRONIEVICS, BRANISLAV. On the law of irreversible evolution. Ann. Rep. Smithsonian Inst., 1918, pp. 429-440. 1920. (Translated by Gerrit S. Miller, Jr.)
- RAVENEL, WILLIAM DE C. Report on the progress and condition of the United States National Museum for the year ending June 30, 1920. 1920. (Includes reports by head curators of departments. Half-tone plate of mounted skeleton of *Brontotherium hatcheri* Osborn.)
- ROYAL ZOOLOGICAL AND ACCLIMATISATION SOCIETY OF VICTORIA. Fifty-sixth annual report and report of the annual meeting of the society for the year 1919. Melbourne, 1920. (List of animals living in the Melbourne zoological park. Five half-tone plates of mammals and a plan of the gardens.)
- SHUFELDT, R. W. American bears. Amer. Forestry, vol. 27, pp. 22-31, figs. 1-12. January, 1921.
- Types of mammals. With notes on hybrids, diseases, albinism, and other conditions equally applicable to man. Med. Record, reprints pagged 1-23, 5 figs. January 29, 1921.
- SKINNER, M. P. Story of the Whitebar elk. Nat. Hist., vol. 20, pp. 576-583. December, 1920.
- TAKENOUCHI, MATSUZIRO. Studies on the reputed endocrine function of the thymus gland (albino rat). Journ. Exper. Zool., vol. 29, pp. 311-342. October, 1919.
- THOMAS, OLDFIELD. A new tuco-tuco from Bolivia. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 136, 137. January, 1921. (*Ctenomys goodfellowi*, sp. nov., from Esperanza, Nuflo de Chaves, Bolivia.)
- Two new Muridæ discovered in Paraguay by the Marquis de Wavrin. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 177-179. February, 1921. (*Oryzomys warrini* and *Akodon toba*, new species from the Northern Chaco.)
- A new mountain vizcacha (*Lagidium*) from N. W. Patagonia. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 179-181. February, 1921. (Describes *Lagidium boxi* from the upper Rio Negro, Patagonia.)
- A new monkey and a new squirrel from the Middle Mekong, on the eastern frontier of Siam. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 181-183. February, 1921. (*Pithecus laotum* and *Dremomys rufigenis laomache* are described as new.)
- New *Rhipidomys*, *Akodon*, *Ctenomys*, and *Marmosa* from the Sierra Santa Barbara, S. E. Jujuy. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 183-187. February, 1921. (*Rhipidomys austrinus*, *Akodon sylvanus*, *Ctenomys budini barbarus*, and *Marmosa elegans sponsoria* are new forms from Argentina.)
- THOMAS, OLDFIELD, AND HERBERT C. ROBINSON. Some new insular squirrels of the *Callosciurus caniceps-concolor* group from peninsular Siam. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 118-123. January, 1921. (Nine new forms of *Callosciurus*.)

- TROUESSART, E.-L. La pluralité des espèces de gorille. Bull. Mus. d'Hist. nat., pp. 102-108, 191-196 (1-13 of reprint), 9 figs. 1920. (Material in the Paris museum shows that two distinct species of gorilla inhabit West Africa; the *Gorilla beringei mikenensis* of Lönnberg, from the lake region, is regarded as representing a third very distinct species.)
- *L'Echinoprocta rufescens* (Hystricidae), décrit par Gray en 1865, retrouvé en Colombie, pres de Bogotà. Bull. Mus. d'Hist. nat., pp. 448-453, 3 figs. 1920. (Revised diagnoses of genus and species.)
- TROUGHTON, ELLIS LE G. Notes on Australian mammals. No. 1. Rec. Australian Mus., vol. 13, no. 3, pp. 118-122, figs. 1-6. December 4, 1920. (*Chalinolobus morio*, *Eptesicus pumilus*, *Epimys assimilis*.)
- WILEY, A. A question of bibliography. Science, n. s., vol. 52, pp. 608-609. December 24, 1920. (Asks for information as to what "Mr. Lockhart" is quoted in Coues' Fur-bearing Animals as authority for observation on habits of the wolverine.)
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THE NORTHERN CALIFORNIA SECTION OF THE AMERICAN SOCIETY OF MAMMALOGISTS

The Northern California Section of the American Society of Mammalogists was started on January 8, 1920, when, at the suggestion of Dr. Joseph Grinnell, a meeting of persons interested in the study of mammals was held at the California Museum of Vertebrate Zoology in Berkeley. Organization was effected at that meeting and affiliation with the main Society was accomplished the following month. During the year 1920 nine meetings were held, there being a recess over the summer months when a number of the members were absent on field trips. The attendance has varied from five to fifteen but the degree of interest shown is far above that indicated by the attendance. Meetings of other scientific organizations in the San Francisco Bay region have made it impossible for all the local members to be present at each meeting of the section and absence on field trips has further interfered with attendance.

The field of interest has been quite wide although greater emphasis has been laid upon the life histories of mammals than upon any other one subject. The programs of the several meetings were as follows:

January 8, J. Grinnell, On kangaroo rats; J. Dixon, Trapping and trappers in central and southern California.

February 5, A. B. Howell, The California mastiff bat; Some Californian experiences with bat roosts (see this Journal, 1920, pp. 111-117; pp. 169-177).

March 4, Dane Coolidge, Collecting mammals in Italy and France in 1900.

April 1, J. Dixon, The golden beaver at Snelling, California.

May 6, Prof. C. A. Kofoid, Experiences with the wild mammals of southwestern British India.

August 26, Prof. J. S. Kingsley, Some reminiscences of vertebrate zoologists.

September 16, Symposium on the status of deer in the central coast counties of California.

October 28, "Book evening" at the University of California Library.

December 9, Dr. T. T. Waterman, Indian legends relating to western mammals.